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# Expanding Research Data Services with Deep Blue Data

Neeser, Amy

<https://hdl.handle.net/2027.42/120431>

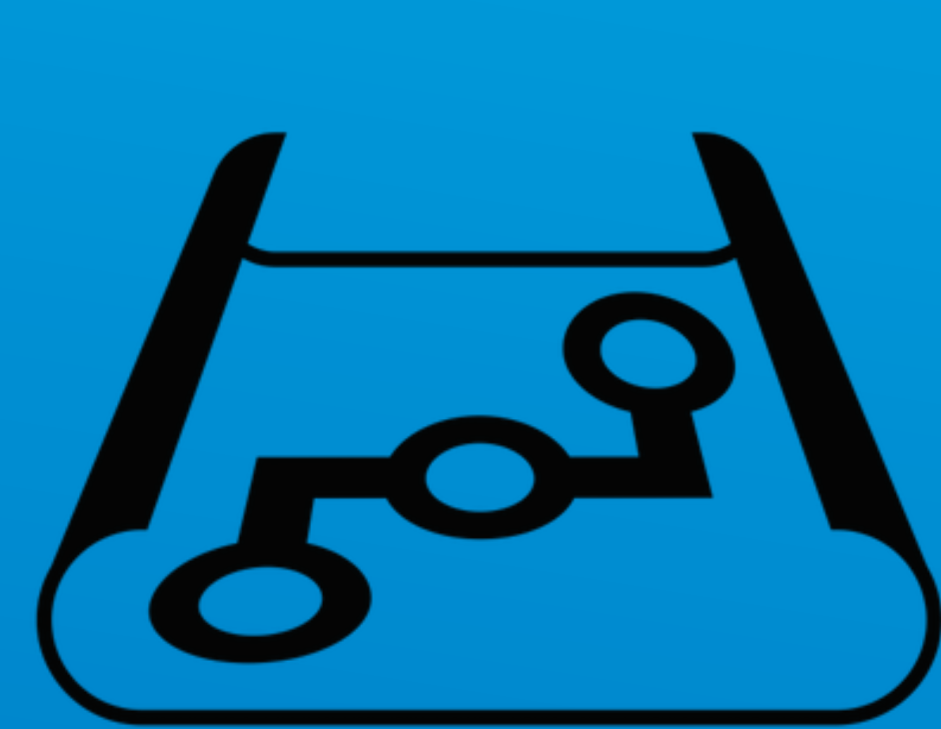
<http://creativecommons.org/licenses/by-nc/4.0/>

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*Downloaded from Deep Blue, University of Michigan's institutional repository*

# Expanding Research Data Services with Deep Blue Data

Amy Neeser, University of Michigan Library



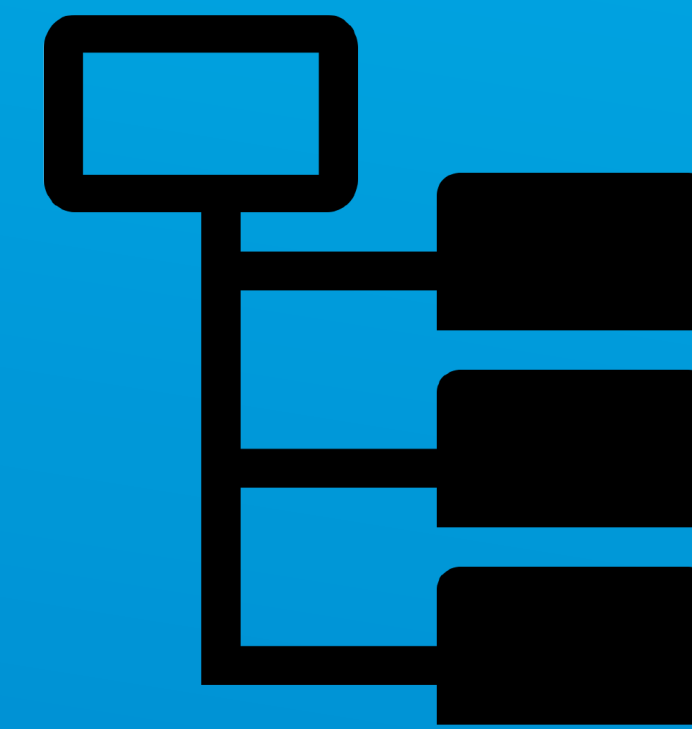
Data  
Management  
Planning



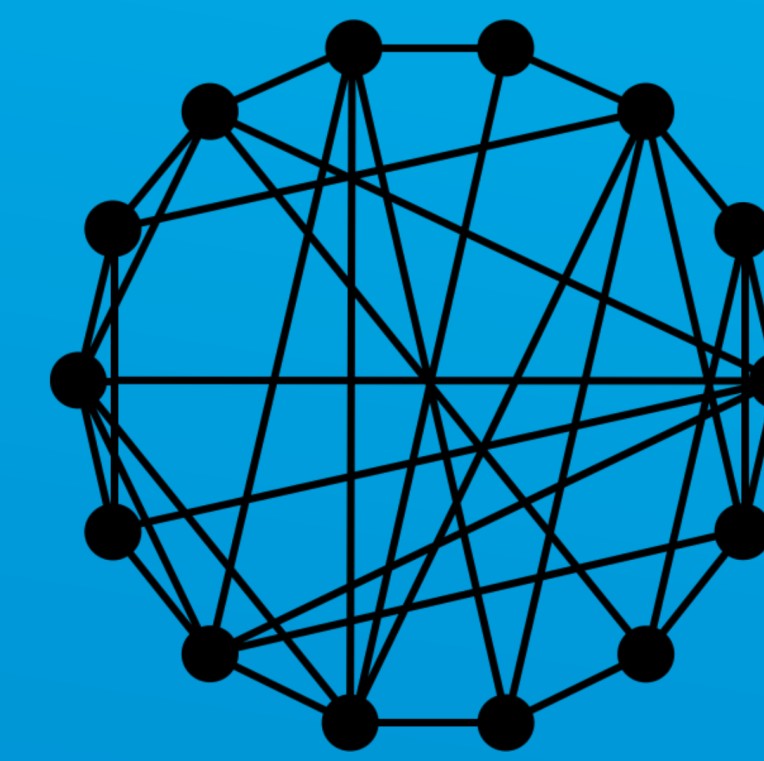
Discovery  
+  
Access



Organization  
+  
Management



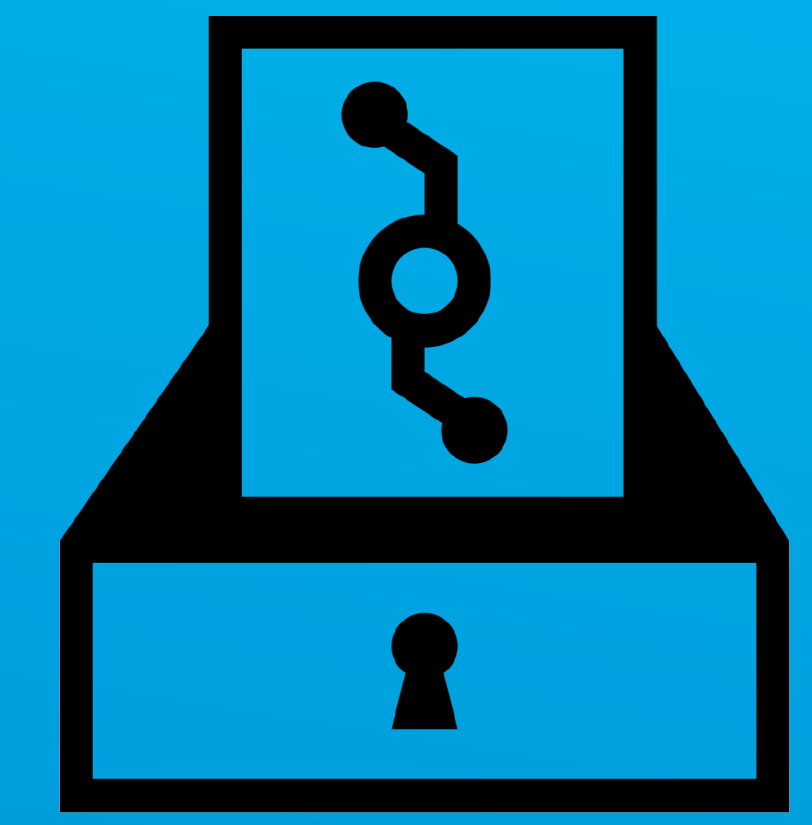
Metadata  
+  
Documentation



Visualization



Sharing  
+  
Publication





Preservation

The University of Michigan is expanding its research data services to support the needs of researchers across the data lifecycle. Deep Blue Data is the Library's data repository for access and preservation services.

## Sufia 7

- Sits on the top of the Hydra Fedora software stack
- Adapted forthcoming institutional repository code to be optimized for data
- Uses Portland Common Data Model (PCDM) to enable interoperability
- Relies on the inter-institution collaboration of the Hydra community

Methodology	These files were developed using a statistical pelvis geometry model developed through analysis of medical imaging data.		
Description	The files include an Excel file with the x-, y-, and z- coordinates that make up the nodal coordinates for a surface model of small (5th percentile) female pelvis geometry, the finite element model (.k file) that represents the nodal coordinates, and two surface files that represent the geometry (.obj and .ply).		
Creator	<a href="#">Matthew P. Reed</a> <a href="#">Katelyn F. Klein</a> <a href="#">University of Michigan Transportation Research Institute</a> <a href="#">Jonathan D. Rupp</a>		
Contributors	<a href="#">Katelyn F. Klein</a>		
Discipline	<a href="#">Engineering</a>		
Keywords	<a href="#">Anthropomorphic Test Device, Statistical model</a>		
DOI	<a href="#">doi:10.7302/Z2BZ83ZM</a>		
Visibility	<a href="#">Open Access</a>		
Rights	<a href="#">Attribution 3.0 United States</a>		
Files			
File	Filename	Date Uploaded	Actions
	<a href="#">SymmetricSmallFemalePelvisModelNodalCoordinates.xlsx</a>	2016-04-12	<a href="#">Open Access</a> <a href="#">Download</a>
	<a href="#">SymmetricSmallFemalePelvisModel.k</a>	2016-04-12	<a href="#">Open Access</a> <a href="#">Download</a>

## Deep Blue Data

- Built on Sufia 7
- Facilitates data preservation
- Enables citations via Digital Object Identifier (DOI)
- Helps researchers comply with funding agency and publisher requirements
- Connecting to institutional repository to create seamless service



Research Data Services